The claims defining the invention are as follows:

1. An isoflavone compound or analogue thereof of the general formula I:

$$\begin{array}{c|c}
R_1 & A \\
Z & B
\end{array}$$
(I)

5 in which

R<sub>1</sub> and R<sub>2</sub> are independently hydrogen, hydroxy, OR<sub>9</sub>, OC(O)R<sub>10</sub>, OS(O)R<sub>10</sub>, CHO, C(O)R<sub>10</sub>, COOH, CO<sub>2</sub>R<sub>10</sub>, CONR<sub>3</sub>R<sub>4</sub>, alkyl, haloalkyl, aryl, arylalkyl, thio, alkylthio, amino, alkylamino, dialkylamino, nitro or halo,

Z is hydrogen, and

10 W is R<sub>1</sub>, A is hydrogen, hydroxy, NR<sub>3</sub>R<sub>4</sub>/or thio, and B is selected from

$$R_5$$
  $R_5$   $R_5$   $R_5$   $R_5$   $R_5$ 

W is R<sub>1</sub>, and A and B taken together with the carbon atoms to which they are attached form a six-membered ring selected from

15 W, A and B taken together with the groups to which they are associated comprise

$$R_{1}$$
 $R_{1}$ 
 $R_{2}$ 
 $R_{3}$ 
 $R_{6}$ 
 $R_{1}$ 
 $R_{6}$ 
 $R_{1}$ 
 $R_{6}$ 
 $R_{1}$ 
 $R_{6}$ 
 $R_{1}$ 
 $R_{6}$ 
 $R_{1}$ 
 $R_{2}$ 
 $R_{2}$ 
 $R_{2}$ 
 $R_{2}$ 
 $R_{3}$ 
 $R_{4}$ 
 $R_{5}$ 
 $R_{6}$ 
 $R_{7}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{1}$ 
 $R_{2}$ 
 $R_{2}$ 
 $R_{3}$ 
 $R_{4}$ 
 $R_{5}$ 
 $R_{6}$ 
 $R_{7}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{9}$ 
 $R_{1}$ 
 $R_{2}$ 
 $R_{2}$ 
 $R_{3}$ 
 $R_{4}$ 
 $R_{5}$ 
 $R_{5}$ 
 $R_{5}$ 
 $R_{7}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{8}$ 
 $R_{9}$ 
 $R_{9$ 

W and A taken together with the groups to which they are associated comprise

$$R_{1}$$
 $R_{1}$ 
 $R_{1}$ 
 $R_{1}$ 
 $R_{1}$ 
 $R_{1}$ 
 $R_{1}$ 
 $R_{1}$ 
 $R_{1}$ 
 $R_{2}$ 
 $R_{2}$ 
 $R_{3}$ 
 $R_{4}$ 
 $R_{10}$ 
 $R_{10}$ 
 $R_{10}$ 
 $R_{2}$ 
 $R_{2}$ 
 $R_{3}$ 
 $R_{4}$ 
 $R_{10}$ 
 $R_{10}$ 
 $R_{10}$ 
 $R_{2}$ 
 $R_{2}$ 
 $R_{3}$ 
 $R_{4}$ 
 $R_{5}$ 
 $R_{5}$ 
 $R_{5}$ 
 $R_{5}$ 

wherein

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(

(1)

R<sub>3</sub> is hydrogen, alkyl, aryl, arylalkyl, an amino acid, C(O)R<sub>11</sub> where R<sub>11</sub> is hydrogen alkyl, aryl, arylalkyl or an amino acid, or CO<sub>2</sub>R<sub>12</sub> where R<sub>12</sub> is hydrogen, alkyl, haloalkyl, aryl or arylalkyl,

10 R<sub>4</sub> is hydrogen, alkyl or aryl,

or R<sub>3</sub> and R<sub>4</sub> taken together with the nitrogen to which they are attached comprise pyrrolidinyl or piperidinyl,

 $R_5$  is hydrogen,  $C(O)R_{11}$  where  $R_{11}$  is as previously defined, or  $CO_2R_{12}$  where  $R_{12}$  is as previously defined,

15 R<sub>6</sub> is hydrogen, hydroxy, alkyl, aryl, amino, thio, NR<sub>3</sub>R<sub>4</sub>, COR<sub>11</sub> where R<sub>11</sub> is as previously defined, CO<sub>2</sub>R<sub>12</sub> where R<sub>12</sub> is as previously defined or CONR<sub>3</sub>R<sub>4</sub>,

R<sub>7</sub> is hydrogen, C(O)R<sub>11</sub> where R<sub>11</sub> is as previously defined, alkyl, haloalkyl, aryl, arylalkyl or Si(R<sub>13</sub>)<sub>3</sub> where each R<sub>13</sub> is independently hydrogen, alkyl or aryl,

R<sub>8</sub> is hydrogen, hydroxy, alkoxy or alkyl,

 $R_9$  is alkyl, haloalkyl, aryl, arylalkyl,  $C(O)R_{11}$  where  $R_{11}$  is as previously defined, or  $Si(R_{13})_3$  where  $R_{13}$  is as previously defined,

R<sub>10</sub> is hydrogen, alkyl, haloalkyl, amino, aryl, arylalkyl, an amino acid, alkylamino or dialkylamino,

the drawing "---" represents either a single bond or a double bond,

X is O, NR4 or S, and

Y is

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10 wherein

R<sub>14</sub>, R<sub>15</sub> and R<sub>16</sub> are independently hydrogen, hydroxy, OR<sub>9</sub>, OC(O)R<sub>10</sub>, OS(O)R<sub>10</sub>, CHO, C(O)R<sub>10</sub>, COOH, CO<sub>2</sub>R<sub>10</sub>, CONR<sub>3</sub>R<sub>4</sub>, alkyl, haloalkyl, aryl, arylalkyl, thio, alkylthio, amino, alkylamino, dialkylamino, nitro or halo,

with the proviso that

15 when

R<sub>1</sub> is hydroxy, or O¢(O)R<sub>A</sub> where R<sub>A</sub> is alkyl or an amino acid, and

R<sub>2</sub> is hydrogen, hydroxy, OR<sub>B</sub> where R<sub>B</sub> is an amino acid or C(O)R<sub>A</sub> where R<sub>A</sub> is as previously defined, and

W is hydrogen, then

20 Y is not 4-hydroxyphenyl or 4-alkylphenyl;

when

 $R_1$  is hydroxy, or  $OC(\Phi)R_A$  where  $R_A$  is alkyl or an amino acid, and

 $R_2$  is hydrogen, hydroxy,  $OR_B$  where  $R_B$  is an amino acid or  $C(O)R_A$  where  $R_A$  is as

25 previously defined, and

Y is 4-hydroxyphenyl or 4-alkylphenyl, then

W is not hydrogen;

when

 $R_1$  is hydroxy, or OC(O) $R_A$  where  $R_A$  is alkyl or an amino acid, and

Y is 4-hydroxyphenyl or 4-alkylphenyl, and

W is hydrogen, then

is not hydrogen, hydroxy, OR<sub>B</sub> where R<sub>B</sub> is an amino acid or C(O)R<sub>A</sub> where R<sub>A</sub> is as previously defined; and

when

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R<sub>2</sub> is hydrogen, hydroxy, OR<sub>B</sub> where R<sub>B</sub> is an amino acid or C(O)R<sub>A</sub> where R<sub>A</sub> is as previously defined, and

Y is 4-hydroxyphenyl or 4-alky/phenyl, and

W is hydrogen, then

 $R_1$  is not hydroxy, or  $OC(O)R_A$  where  $R_A$  is alkyl or an amino acid.

2. An isoflavone compound or analogue thereof of the general formula II:

$$R_1$$
 $R_2$ 
 $R_2$ 
 $R_2$ 
 $R_2$ 
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_2$ 

in which

R<sub>1</sub> and R<sub>2</sub> are independently hydrogen, bydroxy, OR<sub>9</sub>, OC(O)R<sub>10</sub>, OS(O)R<sub>10</sub>, CHO,
C(O)R<sub>10</sub>, COOH, CO<sub>2</sub>R<sub>10</sub>, CONR<sub>3</sub>R<sub>4</sub>, alkyl, haloalkyl, aryl, arylalkyl, thio, alkylthio, amino, alkylamino, dialkylamino, nitro or halo,

Z<sub>A</sub> is OR<sub>9</sub>, OC(O)R<sub>10</sub>, OS(O)R<sub>10</sub>, CHO, C(O)R<sub>10</sub>, COOH, CO<sub>2</sub>R<sub>10</sub>, CONR<sub>3</sub>R<sub>4</sub>, alkyl, haloalkyl, aryl, arylalkyl, thio, alkylthio, amino, alkylamino, dialkylamino, nitro or halo, and

25 W is R<sub>1</sub>, A is hydrogen, hydroxy, NR<sub>3</sub>R<sub>4</sub> or thio, and B is selected from

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$$-32$$
 -  $R_5$   $R_5$   $R_5$   $R_5$   $R_5$   $R_5$   $R_5$ 

W is R<sub>1</sub>, and A and B taken together with the carbon atoms to which they are attached form a six-membered ring selected from

5 W, A and B taken together with the groups to which they are associated comprise

$$R_8$$
 $R_8$ 
 $R_9$ 
 $R_9$ 

W and A taken together with the groups to which they are associated comprise

$$R_1$$
 $R_2$ 
 $R_3$ 
 $R_4$ 
 $R_5$ 
 $R_6$ 
 $R_8$ 
 $R_9$ 
 $R_9$ 

$$R_5$$
 $R_5$ 
 $R_5$ 
 $R_5$ 

wherein

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- R<sub>3</sub> is hydrogen, alkyl, aryl, arylalkyl, an/amino acid, C(O)R<sub>11</sub> where R<sub>11</sub> is hydrogen alkyl, aryl, arylalkyl or an amino acid, or CO<sub>2</sub>R<sub>12</sub> where R<sub>12</sub> is hydrogen, alkyl, haloalkyl, aryl or arylalkyl,
- R4 is hydrogen, alkyl or aryl,
- or R<sub>3</sub> and R<sub>4</sub> taken together with the nitrogen which they are attached are pyrrolidinyl or piperidinyl,
- $R_5$  is hydrogen,  $C(O)R_{11}$  where  $R_{11}$  is as previously defined, or  $CO_2R_{12}$  where  $R_{12}$  is as previously defined,
- R<sub>6</sub> is hydrogen, hydroxy, alkyl, aryl, amino, thio, NR<sub>3</sub>R<sub>4</sub>, COR<sub>11</sub> where R<sub>11</sub> is as previously defined, CO<sub>2</sub>R<sub>12</sub> where R<sub>12</sub> is as previously defined or CONR<sub>3</sub>R<sub>4</sub>,
- R<sub>7</sub> is hydrogen, C(O)R<sub>1</sub>, where R<sub>1</sub> is as previously defined, alkyl, haloalkyl, aryl, arylalkyl or Si(R<sub>13</sub>), where each R<sub>13</sub> is independently hydrogen, alkyl or aryl,
- 15 R<sub>8</sub> is hydrogen, hydroxy, alkoxy or alkyl,
  - R<sub>9</sub> is alkyl, haloalkyl, aryl, arylalkyl, C(O)R<sub>11</sub> where R<sub>11</sub> is as previously defined, or Si(R<sub>13</sub>)<sub>3</sub> where R<sub>13</sub> is as previously defined,
  - R<sub>10</sub> is hydrogen, alkyl, haloalkyl, amino, aryl, arylalkyl, an amino acid, alkylamino or dialkylamino,
- 20 the drawing "---" represents either a single bond or a double bond,
  - X is O, NR<sub>4</sub> or S, and

Y is

wherein

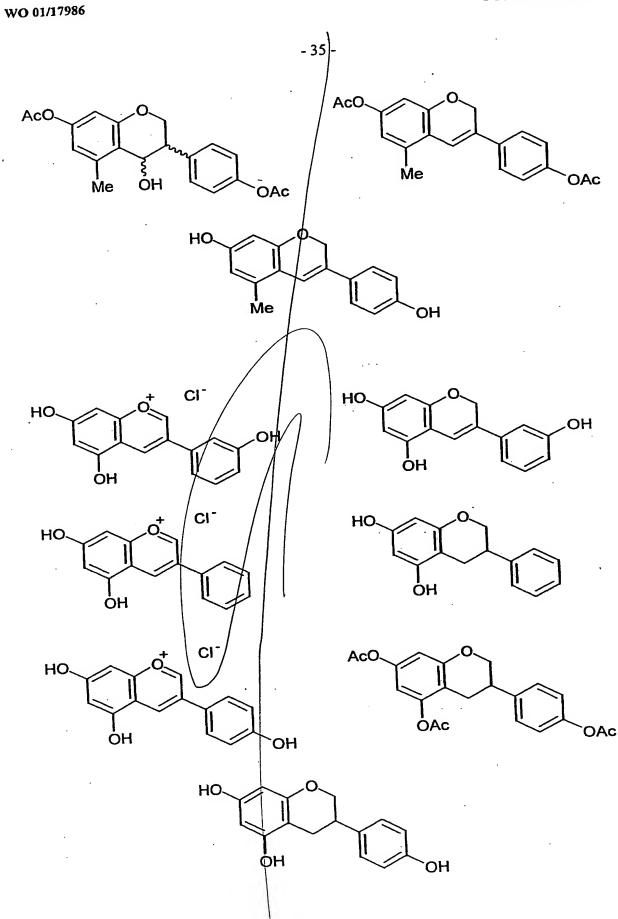
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R<sub>14</sub>, R<sub>15</sub> and R<sub>16</sub> are independently hydrogen, hydroxy, OR<sub>9</sub>, OC(O)R<sub>10</sub>, OS(O)R<sub>10</sub>, CHO, C(O)R<sub>10</sub>, COOH, CO<sub>2</sub>R<sub>10</sub>, CONR<sub>3</sub>R<sub>4</sub>, alkyl, haloalkyl, aryl, arylalkyl, thio, alkylthio, amino, alkylamino, dialkylamino, nitro or halo.

3. A compound of formulae I as defined in claim 1 or of formula II as defined in claim 2 selected from the group consisting of:

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A method for the treatment, prophylaxis, amelioration, defence against, and/or prevention of menopausal syndrome including hot flushes, anxiety, depression, mood swings, night sweats, headaches, and urinary incontinence; osteoporosis; premenstrual syndrome, including fluid retention, cyclical mastalgia, and dysmenorrhoea; Reynaud's Syndrome; Reynaud's Phenomenon, Buergers Disease; coronary artery spasm; migraine headaches; hypertension; benign prostatic hypertrophy; all forms of cancer including breast cancer; uterine cancer; ovarian cancer; testicular cancer; large bowel cancer; endometrial cancer; prostatic cancer; uterine cancer; artherosclerosis; Alzheimers disease; inflammatory diseases including inflammatory bowel disease, ulcerative colitis, Crohns disease; rheumatic diseases including rheumatoid arthritis; acne; baldness including male pattern baldness (alopecia hereditaria); psoriasis; diseases associated with oxidant stress including cancer; myocardial infarction; stroke; arthritis; sunlight induced skin damage or cataracts (the "therapeutic indications") which comprises administering to a subject a therapeutically effective amount of one or more compounds selected from formulae I and 15 II.

Use of one or more compounds selected from formulae I and II for the manufacture of a medicament for the treatment, amelioration, defence against, prophylaxis and/or prevention of one or more therapeutic indications according to claim 4.

Use of one or more compounds selected from formulae I and II in the treatment, amelioration, defence against, prophylaxis and/or prevention of one or more therapeutic indications according to claim 4.

An agent for the treatment, prophylaxis, amelioration, defence against and/or 25 treatment of the therapeutic indications according to claim 4 which comprises one or more compounds selected from formulae I and II either alone or in association with one or more carriers or excipients.

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- 8. A therapeutic composition which comprises one or more compounds selected from formulae I and II in association with one or more pharmaceutical carriers and/or excipients.
- 9. A drink or food-stuff, which contains one or more compounds selected from formulae I and II.
  - 10. A microbial culture or a food-stuff containing one or more microbial strains which microorganisms produce one or more compounds selected from formulae I and II.
  - 11. One or more microorganisms which produce one or more compounds selected from formulae I and II.

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